

Title (en)

Positioning apparatus used for machine tools etc.

Title (de)

Positionierungsvorrichtung für Werkzeugmaschinen etc.

Title (fr)

Dispositif de positionnement pour machine-outils etc.

Publication

**EP 0531732 A1 19930317 (EN)**

Application

**EP 92113740 A 19920812**

Priority

- JP 17053192 A 19920629
- JP 20175191 A 19910812

Abstract (en)

A positioning apparatus is provided which is capable of performing high-accuracy positioning in a short time using no curvic coupling. With the provision of an hydraulic motor (10) having a rotary shaft (3) fixed to a turret head (2) and a hollow type rotary encoder (12) for detecting the angle of rotation of the rotary shaft (3), rotation of the hydraulic motor (10) is controlled by a controller (35) via a control valve (11). Locking of the rotary shaft (3) is performed by means of the rebound force of a spring (28) provided in a hydraulic cylinder (22) by pressing a pad provided at a tip portion of a rod against a disk (21). Unlocking of the rotary shaft (3) is performed by supplying a hydraulic fluid into a cylinder chamber in the cylinder (22) by switching a directional control valve (23). <IMAGE>

IPC 1-7

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IPC 8 full level

**B23Q 16/02** (2006.01)

CPC (source: EP US)

**B23Q 16/025** (2013.01 - EP US)

Citation (search report)

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- [Y] US 4507993 A 19850402 - SILVERMAN MARTIN L [US], et al
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**EP 0531732 A1 19930317; EP 0531732 B1 19970108;** DE 69216516 D1 19970220; DE 69216516 T2 19970528; JP 2967651 B2 19991025; JP H05177509 A 19930720; TW 203571 B 19930411; US 5341722 A 19940830

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